<u> 28 JU</u>L 2006 P15 Rec'd PCT/PTO

U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE ORM PTO-1390 (Modified) REV. 7-2005)

## TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

1075878,18<sup>7 CFR 1.5)</sup> U.S. APF

14321.90

CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED PCT/JP2005/001599 February 3, 2005 February 3, 2004 TITLE OF INVENTION AVALANCHE PHOTODIODE APPLICANT(S) FOR DO/EO/US Tadao Ishibashi Yukihiro Hirota Seigo Ando Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 2. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), 3. (9) and (24) indicated below. 4.  $\boxtimes$ The US has been elected (Article 31). A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) 5. a. 🛛 is attached hereto (required only if not communicated by the International Bureau). b. 🛛 has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US).  $\boxtimes$ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). 6. a. 🛛 is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). b. 🗆 Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) X 7. are attached hereto (required only if not communicated by the International Bureau). a. 🗆 b. . 🔲 have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. have not been made and will not be made. 8. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)). 10. An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)). A copy of the International Preliminary Examination Report (PCT/IPEA/409). 11. 12.  $\boxtimes$ A copy of the International Search Report (PCT/ISA/210). Items 13 to 23 below concern document(s) or information included:  $\boxtimes$ 13. An Information Disclosure Statement under 37 CFR 1.97 and 1.98. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 14. 15. A FIRST preliminary amendment. 16 A SECOND or SUBSEQUENT preliminary amendment. 17. A substitute specification. A power of attorney and/or change of address letter. 18. 19. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825. 20. A second copy of the published International Application under 35 U.S.C. 154(d)(4). A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4). 21.  $\boxtimes$ 22. Express Mail Label No. EV 825 902 572 US

APPOREC'D PCT/PTO 28 JUL 2006
PTO-1390 (Rev. 07-2005)
Approved for use through 3/31/2007. OMB 0651-0021
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U.S. APPLICATION TO PARAW Seed 37 FR 1.5)		INTERNATIONAL APPLICATION NO. PCT/JP2005/001599			ATTORNEY'S DOCKET NUMBER  14321.90			
postcard	ms or information:							
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The following fees have been submitted:					CALCL	JLATIONS	PTO USE	
24. 🖾 Basic r	ational fee				\$300	\$	\$300.00	
25. ☑ Examination fee (37 CFR 1.492(c))  If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article \$0  All other situations. \$200					\$	\$200.00		
26. Search fee (37 CFR 1.492(b))  If the written opinion of the ISA/US or the International preliminary examination report by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) \$0  Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the as an International Searching Authority					\$	\$ \$400.00		
TOTA	L OF 24, 25 and	26 =				\$	\$900.00	
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)).  The fee is \$250 for each additional 50 sheets of paper or fraction thereof.								
Total Sheets	Extra Sheets			f each additional 50 or eof (round up to a whole				
- 100 =	0 /50 =		0		x \$250.00	\$	\$0.00	
Surcharge of \$13 declaration after	30.00 for furnishing the date of comme	any of the s	earch fee, examination the national stage (37	fee, CFR	or the oath or 1.492(h)).	\$		
CLAIMS	NUMBER F	ILED	NUMBER EXTRA		RATE			
Total claims	3	- 20 =	0	x	\$50.00	\$	\$0.00	
Independent clai	ms 1	- 3=	0	х	\$200.00	\$	\$0.00	
MULTIPLE DEP	ENDENT CLAIMS	·		+	\$360.00	\$	\$0.00	
TOTAL OF ABOVE CALCULATIONS =					\$	\$900.00		
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.				\$	\$0.00			
SUBTOTAL =					\$	\$900.00		
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).					\$ \$0.00			
TOTAL NATIONAL FEE =					\$ \$900.00			
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property +					\$ \$0.00			
TOTAL FEES ENCLOSED =					\$ \$900.00			
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C.	$\boxtimes$	The Commissioner is hereby authorized to character Deposit Account No. 23-3178	arge any additional fees which may be re A duplicate copy of this sheet is enclose	•				
d.	×	Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.						
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.								
SEND ALL CORRESPONDENCE TO:								
W	ORK	KMAN NYDEGGER	SIGNATURE					
022913			Dana L. Tan	Dana L. Tangren				
			NAME					
PATENT TRADEMARK OFFICE								
CUSTOMER NO.			37,246	37,246				
			REGISTRATIO	REGISTRATION NUMBER				
			July 28, 2006	July 28, 2006				
			DATE	DATE				

## JAP20 Rec'd PCT/PTO 28 JUL 2006

	CERTIFICATE OF MAILING I	Docket No.					
4	Applicant(s) Tadas Ishibashi, Seigo Ando, and Yukihiro Hirota  Sejianyo O Leging Date   Confirmation No.   Customer No.   Example 1					14321.90	
I	Spia No.O & Ling Date	Confirmation No.	Customer No.	Examiner		Group Art Unit	
			022913				
	Invention: AVALANCHE PHO	TODIODE					

I hereby certify that the following are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Mail Stop: PCT, Commissioner for Patents, PO Box 1450, Arlington, Virginia 22313-1450.

DATED this 28th day of July 2006.

- Transmittal Letter concerning filing under 35 USC § 371 (3 pages) (in duplicate)
- A copy of PCT/JP2005/001599
- Application Data Sheet (4 pages)
- English translation of PCT/JP2005/001599 with Verification of Translation (27 pages)
- Drawings (6 pages)
- Copy of International Search Report (4 pages)
- Form PTO-2038 submitting Credit Card Payment in the amount of \$900
- Transmittal for Information Disclosure Statement (3 pages)
- Information Disclosure Statement (3 pages)
- Form PTO-1449 listing 5 references (2 pages)
- Copy of 4 Non-US references
- Postcard

DANA L. TANGREN

(Typed or Printed Name of Person Mailing Correspondence)

(Signature of Person Mailing Correspondence

EV 825 902 572 US

("Express Mail" Mailing Label Number)

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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE JUL 2006

In re International Application of

Tadao ISHIBASHI et al

International Application No.:

PCT/JP2005/001599

International filing date:

February 3, 2005

For: AVALANCHE PHOTODIODE

## VERIFICATION OF TRANSLATION

Honorable Commissioner of Patent and Trademark Washington, D.C. 20231 Sir:

Chikao NAGASAKA residing at c/o TANI & ABE, No. 6-20, Akasaka 2-chome, Minato-ku, Tokyo 107-0052, Japan, declares:

- (1) that he knows well both the Japanese and English languages;
- (2) that he translated the claims of the above-identified International Application from Japanese to English;
- (3) that the attached English translation is a true and correct translation of the claims, specification and drawings of the above-identified International Application to the best of his knowledge and belief; and
- (4) that all statements made of his own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements are made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 USC 1001, and that such false statements may jeopardize the validity of the application or any patent issuing thereon.

July 25, 2006

Chilao hagasaha

Date